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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008219

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl H01L27/092, H03G11/00, H03K5/00, H01L29/78, H01L21/336

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl7 H01L27/092, H03G11/00, H03K5/00, H01L29/78, H01L21/336

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Jitsuyo Shinan Toroku Koho Toroku Jitsuyo Shinan Koho

1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-118255 A (Toshiba Corp.),	1-3,5,6,8
A	19 April, 2002 (19.04.02),	4,7
	Full text; all drawings	
	& US 2002/011612 A1	· ·
	Full text; all drawings	
Y	JP 2002-261097 A (Tadahiro OMI),	1-3,5,6,8
A	13 September, 2002 (13.09.02),	4,7
	Full text; all drawings	
	& EP 1347506 A1	·
	Full text; all drawings	
	& WO 2002/054473 A1 & JP 2002-261091 A	
	& KR 3068570 A	
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×	Further documents are listed in the continuation of Box C.		See patent family annex.	
*	Special categories of cited documents:	"T"	later document published after the international filing date or priority	
"A"	document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E"	filing date		document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
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			document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"O"	document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"P"	document published prior to the international filing date but later than the priority date claimed	"& "	document member of the same patent family	
Date of the actual completion of the international search		Date	of mailing of the international search report	
06 August, 2004 (06.08.04)			24 August, 2004 (24.08.04)	
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/008219

	DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A .	JP 6-303065 A (Nippon Telegraph And Telephone Corp.), 28 October, 1994 (28.10.94), Full text; all drawings & US 5475342 A Full text; all drawings & EP 621686 A2 & JP 6-310967 A & JP 7-46092 A	1-3,5,6,8 4,7
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